

Title (en)
Ignition limited illuminator

Title (de)
Beleuchtungsvorrichtung mit begrenzter Zündung

Title (fr)
Illuminateur à allumage limité

Publication
EP 1954107 B1 20100505 (EN)

Application
EP 08100872 A 20080124

Priority
US 88675207 P 20070126

Abstract (en)
[origin: EP1954107A1] A system and method for hardware limiting the ignition of an ophthalmic illumination source (14) are disclosed. One embodiment of the present invention is an ophthalmic illuminator (10), comprising: an illumination source (14) having a desired useful lifetime; and an ignition system (300) operable to provide an ignition pulse to ignite the illumination source, wherein the ignition pulse voltage is limited to prevent ignition of the illumination source beyond the desired useful lifetime. The desired useful lifetime of the illumination source can be an arbitrarily selected lifetime that is less than an expected illumination source lifetime based on manufacturer's specifications for the illumination source. The ignition pulse voltage limit can be a threshold voltage, wherein the threshold voltage is a minimum voltage required to ignite the illumination source near the end of the desired useful lifetime. The illuminator can further comprise an alerting system operable to alert a user to replace the illumination source if the ignition pulse fails to ignite the illumination source.

IPC 8 full level
H05B 41/292 (2006.01)

CPC (source: EP US)
A61B 90/30 (2016.02 - EP US); **H05B 41/042** (2013.01 - EP US); **H05B 41/2881** (2013.01 - EP US); **H05B 41/2925** (2013.01 - EP US);
A61B 2090/306 (2016.02 - EP US); **Y02B 20/00** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1954107 A1 20080806; EP 1954107 B1 20100505; AT E467334 T1 20100515; AU 2008200398 A1 20080814; AU 2008200398 B2 20130328;
CA 2618968 A1 20080726; CA 2618968 C 20140408; DE 602008001111 D1 20100617; ES 2341816 T3 20100628; JP 2008186805 A 20080814;
US 2008183160 A1 20080731

DOCDB simple family (application)
EP 08100872 A 20080124; AT 08100872 T 20080124; AU 2008200398 A 20080125; CA 2618968 A 20080125; DE 602008001111 T 20080124;
ES 08100872 T 20080124; JP 2008016405 A 20080128; US 1883008 A 20080124